AI Planning Exercise Sheet 4

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Exercise 4.1

For easy readability let the tiles be referred to as b_1 , b_2 , w_1 and w_2 and the empty cell be referred to as e. Furthermore, let the actions move and jump be denoted as $m_c(t)$ and $j_c(t)$ respectively where c is the destination cell $\{1, 2, 3, 4, 5\}$ and t is the tile that is being relocated.

As an example, the initial state is:

 b_1, b_2, w_1, w_2, e

If we then apply $j_5(b_2)$ we reach:

 b_1, e, w_1, w_2, b_2

(a)

(b)

Exercise 4.2

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